

## Anti-HSP27/HSPB1 Antibody (3H943)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3H943
Purification:	Affinity-chromatography

### Applications

#### 1. Western Blot

- Positive WB detected in: Hela whole cell lysate, PC3 whole cell lysate, 293T whole cell lysate, LO2 whole cell lysate, HT-29 whole cell lysate, K562 whole cell lysate
- All lanes: Hsp27 antibody at 0.62µg/ml
- Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
- Predicted band size: 23 KDa
- Observed band size: 27 KDa

2. IHC image of TMAH-00580 diluted at 1:61.9 and staining in paraffin-embedded human pancreatic tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

3. IHC image of TMAH-00580 diluted at 1:61.9 and staining in paraffin-embedded human cervical cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

4. Immunofluorescence staining of MCF-7 cells with TMAH-00580 at 1:20, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

5. Immunoprecipitating Hsp27 in Hela whole cell lysate

- Lane 1: Rabbit control IgG instead of TMAH-00580 in Hela whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
- Lane 2: TMAH-00580 (3µg) + Hela whole cell lysate (500µg)
- Lane 3: Hela whole cell lysate (20µg)

6. Overlay histogram showing Hela cells stained with TMAH-00580 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was

Verified Activity:

## A DRUG SCREENING EXPERT

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performed.

Application: ELISA, WB, IHC, IF, FCM, IP

Recommended WB:1:500-1:5000; IHC:1:50-1:200; IF:1:20-1:200; IP:1:200-1:1000.

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: A synthetic peptide: Human HSPB1

Antigen Species: Human

Gene ID: 3315

Uniprot ID: P04792

Synonyms: SRP27;HSPB1;HMN2B;Hsp27;HSP28;HSP 27;CMT2F

Biology Area: Signal Transduction

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### Research Background

Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding-competent state. Plays a role in stress resistance and actin organization. Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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